

WHAT IS CLAIMED IS:

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1. A recording medium comprising:
data sectors; and
identifier portions each provided for more
than one of the data sectors,

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each of the identifier portions being
arranged in positions shifted from the identifier
portions on adjacent tracks.

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2. The recording medium as claimed in
claim 1, wherein predetermined tracks are produced
in the form of lands, and other tracks adjacent to
the predetermined tracks are produced in the form of
grooves.

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3. The recording medium as claimed in
claim 1, wherein the identifier portions have
addresses which are consecutive in a direction of
the tracks.

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4. The recording medium as claimed in
claim 1, wherein the identifier portions have
addresses which are consecutive in a direction of
the tracks at intervals of a constant address value.

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5. The recording medium as claimed in claim 1, wherein synchronizing information portions for distinguishing the data sectors are provided between the data sectors.

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6. The recording medium as claimed in claim 5, wherein the synchronizing information portions are arranged adjacent to each other on mutually adjacent tracks.

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7. The recording medium as claimed in claim 5, wherein the synchronizing information portions between sectors on adjacent tracks have the same pattern, and the pattern of the synchronizing information portions in the data sectors with the identifier portions on a track are different from the pattern of the synchronizing information portions in the data sectors with no identifier portions.

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8. The recording medium as claimed in claim 6, wherein the synchronizing information portions are provided on every other track.

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9. An information storage apparatus for

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expanded margin with respect to timing at which the address determination unit determines the address of a data sector with no identifier portion.

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13. The information storage apparatus as claimed in claim 9, wherein when the address determination unit determines the address of a data sector with no identifier portion, data is received from a data sector which has the identifier portion and is located immediately before the sector with no identifier portion.

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